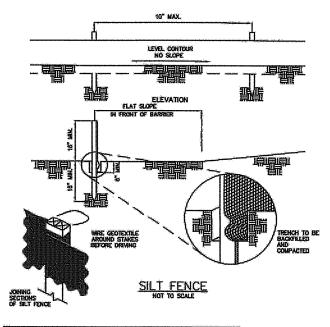
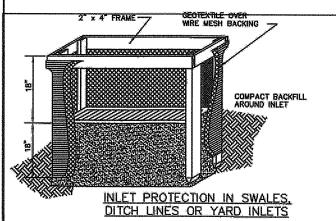
STRAW BALES MAY BE USED IN CONJUNCTION WITH BUT NOT IN PLACE OF SILT FENCE INLET PROTECTION



FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATIONAT 60 LBS.	50 %	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS. (220 N)	ASTM 0 4833
MINIMUM TEAR STRENGTH	40 LBS. (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 MM	ASTM 0 4751
MINIMUM PERMITTIVITY	1X10-2 SEC1	
HU FYDASHDE STOENSTH DETENTION	70 *	ACDI C ITEE



1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECCHES FUNCTIONAL.

2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.

3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BAE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.

INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.

A. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.

5. GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20—40 SIEVE AND BE RESISTANT TO SUMLIGHT. IT SHALL BE STRETECHED TIGHTLY AROUND THE FRAME AND FASTENED SERCURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME AND FASTENED SELOW THE INTET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.

BACKFILL SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.

BACKFILL SHALL OF PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.

Z. A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE AT LEAST 8-INCHES HIGHER THAN THE TOP OF THE FRAME.

Erosion and Sediment Notes Ingress-Egress

A stone access drive for ingress and egress at the site shall be installed. This drive shall be the only entrance and exit to the site. The stone shall be underlain by geo-textile fabric.

All silt fence shall be installed prior to any earthwork activities at the site in the locations shown on the site plan as well as along the front of any lot that slapes towards the street. On sites where a perimeter of temporary seeding (or pre-existing vegetation) cannot be maintained due to limited space, a complete perimeter of silt fence shall be established.

Temporary Seeding/soil stabilization
Disturbed areas of the site that are to remain idle for more than twenty-one (21) days shall be seeded and straw mulched (or similar) within seven (7) days of completion of initial grading; this includes soil stockpiles. Temporary seeding and mulching of a thirty (30) foot strip of the entire front side and any other down-gradient side of the lot shall be maintained on the site once initial grading

Stabilization of critical areas within fifty (50) feet of any stream or wetland shall be complete within two (2) days of the disturbance if the site is to remain inactive. for longer than fourteen (14) days.

Following completion of the construction activities, and the contractor leaving the site, the site soils must be fully stabilized by temporary seeding and/or mulching (or other acceptable process).

<u>Mulchina</u> Straw-mulch shall be applied at a rate of 1 bale per every ten (10) feet of curb, at a width of thirty (30) feet (or 1 bail/300 sq/ft). Wood chips may also be used but must be spread at a minimum depth of four inches over the thirty-fact width and must be accompanied by a properly installed silt fence.

I. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS

FENCE AND SO THAT SMALL SWALES ON DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.

4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE,

5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE, IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOUVE THE ORIGINAL GROUND SURFACE.

7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CITY A MINIMUM OF 8 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITBALE DEVICE THAT WILL ENSURE AN ADEQUATELY UNFORM TRENCH DEPTH.

8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSHOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRECH. THE TRENCH SHALL BE BACKFILLED AND COMPACITED ON BOTH SIDES OF THE FABRIC.

9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAP PRIOR TO DRIVING INTO THE GROUND.

10.MAINTENNANCE-SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GETOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FORCE ON SO THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FORCE ONE OF THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FORCE ONE OF THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FORLEY.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE—HALF OF THE HEIGHT OF THE SILT FENCE. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

1.FENCE POSTS-THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN, NOMINAL DIMENSIONED HARDWOOD OF SOUND
QUALITY, THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING
BETWEEN POSTS SHALL BE 10 FEET, POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE, IF NOT POSSIBLE, THE
POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDMENT/WATER LOADING.

2. SILT FENCE FABRIC—SEE CHART

TEMPORARY SEEDING

SEEDING DATES	SPECIES	Lb./1,000 S.F.	LB/PER ACRE
MARCH 1 - AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (4 BUSHEL) 40 40
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40
	Annual Ryegrass Perennial Ryegrass Creeping Red Fescue Kentucky Bluegrass	1,25 3,25 0,4 0,4	55 142 17 17
	OATS TALL FESCUE ANNUAL RYEGRASS	3 1	128 (3 BUSHEL) 40 40
AUGUST 16 - NOVEMBER	RYE TALL FESCUE ANNUAL RYEGRASS	3	112 (2 BUSHEL) 40 40
	WHEAT TALL FESCUE ANNUAL RYEGRASS	3	120 (2 BUSHEL) 40 40
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	m. m. m.	40 40 40
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1,25 3,25 0,4 0,4	40 40 40
NOVEMBER 1 - FEB, 29	USE MULCH ONLY OR OC	RMANT SEEDING.	

1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIMERSONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEDDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.

2. TEMPORARY SED SHALL BE APPLIED BETWEEN CONSTRUCTION OF SOIL THAT WILL NOT BE GRADED OR REWRED FOR 21 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS AFTER GRADING.

3. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION, TEMPORARY SEDIMO SHOULD NOT BE POSITIONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

4. SOIL AMENDMENTS—TEMPORARY VEGETATION SEDDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND PERRILLER SHALL BE USED.

ESTABLISH ADECURAL DIPOLICATION OF THE ARM FEMALES FOR LIME AND FEMALES EN USE OF SOIL AMENOMENTS. BASE RATES FOR LIME AND FEMALES BE USED.

S. SEEDING METHOD—SSED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTPACKER SEEDER, OR HYDROSEDER, WHICH PEASURS SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAMING OR BRAGGING AND THEN LIGHTLY THAPPED INTO PLACE USING A ROLLER OR CULTPACKER. IF HYDROSEDING IS USED, THE SEED AND PERMILLER WILL BE MADE ON—SIE AND THE SEEDING SHALL BE DONE MANEDATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING

1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH, WHICH
SHALL BE APPLIED DURING OF IMMEDIATELY AFTER SEEDING, SEEDINGS
MADE DURING OFTHUM SEEDING DAYS ON FAVORABLE, VERY FLAT SOIL
CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE

CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

2. MATERIALS:

2. MATERIALS:

2. MATERIALS:

3. STRAW IF STRAW IS USED, IT SHALL BE UNROTTED SMALL—GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 LBS./1.000 SQ.FT.

4. HYDROSEEDHES—IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2000 LBS./A.C. OR 46 LB./1.000—SQ.FT.

4. TOTHER—POTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFAGURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 5 TOM/AC.

2. STAW MULCH SHALL BE ANCHORED HANDDATELY TO MINIMIZE LOSS BY WIND OR WATER ANCHORING METHODS:

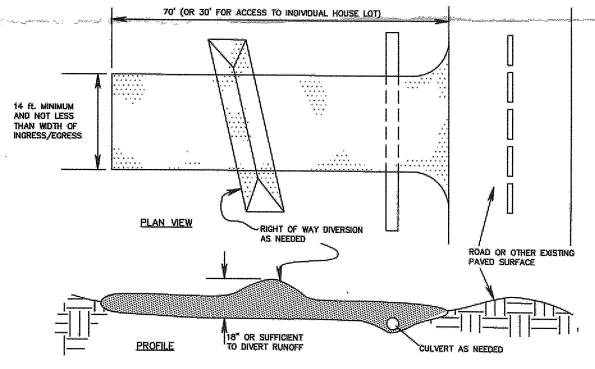
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5. TRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT LETT TO A LENGTH OF APPROMINATELY S INCHES.

4. MULCH STIMPS—RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AFEAS OF CONCENTRATED ENVIOLET AND ON CRITICAL SLOPES. SYNTHETIC BINDERS SUCH AS ACRIVIC DUR (AGRI—TAC), DCA—70, PETROSET, TERRA TRACK OR COUNLENT MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER SHALL BE APPLIED AT A NET DRY WIT, OF 750 LB./AC. THE WOOD—CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXMUM OF 50 LB./100 GAL.



SPECIFICATIONS FOR CONSTRUCTION ENTRANCE:

- 1. STONE SIZE-ODOT #2 (1.5-2.5 INCH) STONE
- LENGTH--THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT HOT LESS THAN 70 FT. (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30-FT, MINIMUM LENGTH APPLIES).
- THICKNESS.—THE STONE LAYER SHALL BE AT LEAST 6 IN. THICK FOR LIGHT DUTY SHRANGES OR AT LEAST 10 HORES FOR HEAVY DUTY USE.
- MOTH—THE ENTRANCE SHALL BE AT LEAST 14 FT, MOE, BUT NOT LESS THAN THE FULL MOTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
- 5. GEOTERINE—A GEOTERITE SHALL BE PLACED ONER THE ENTIRE AREA PRIOR TO PLACING STORE. IT SHALL BE COMPOSED OF STRONG ROT—PROOF POLYMERG FIBERS AND MEET THE FOLLOWING SPECS.

CECTEXTRE SPECIFICATION FOR	CONSTRUCTION ENTRANCE
MANAGE TENSILE STRENGTH	200 LBS.
MANAGE PLANCTURE STRENGTH	80 PSI
MINIMAN TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI
MANAGEM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6 MM.
DCDUITRUITY	1 9 10 7 01 600

- 6. THANG ——THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT--A PIPE OR CULVERT SHALL BE CONSTRUCTED LINGER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- water bar—a water bar shall be constructed as part of the construction entrance if needed to prevent surface ranger from Flowing the length of the construction entrance and out onto paved surfaces.

CONSTRUCTION ENTRANCE

DESCRIPTION:

A CONSTRUCTION ENTRANCE IS A STABILIZED PAD OF AGGREGATE OVER A GEOTEXTILE B USED TO REDUCE THE AMOUNT OF MILD TRACKED OFF—STE WITH CONSTRUCTION TRAFFIC.

CONDITIONS WHERE PRACTICE APPLIES:

- A CONSTRUCTION ENTRANCE SHOULD BE USED:
- WHERE CONSTRUCTION VEHICLES LEAVE ACTIVE CONSTRUCTION AREAS ONTO SURFACES WHERE RUMOFF IS NOT CHECKED BY SEDIMENT CONTROLS;
 - * AT ALL POINTS OF EGRESS TO PUBLIC ROADS;
- WHERE PREQUENT VEHICLES AND EXAMPLENT INGRESS/EXPRESS IS EXPECTED SUCH AS AT THE AT THE ENTRANCE OF INDIVIDUAL BUILDING LOTS:

PLANNING CONSIDERATIONS:

THIS PRACTICE SHOULD NOT BE RELIED ON TO REMOVE MUD FROM CONSTRUCTION TRAFFIC. MOST MUD
IS FLUNG FROM TIRES AS VEHICLES REACH SPECIOS HIGHER THAN IS REACHED ON SITE. THE BEST
APPROACH TO PREJENTING OFF-SITE TRACKING IS TO KEEP VEHICLES THAT FREQUENTLY ENTER AND LEAVE
A SITE, AWAY FROM MUDDY AREAS IN THE FIRST FLACE. VEHICLES SHOULD BE RESTRICTED TO
STABILIZED AREAS TO THE EXITENT PRACTICAL, AND AREAS WHERE PREQUENT INGRESS/EGGESS
IS EXPECTED SHOULD BE STABILIZED.

- MAINTEMANCE—TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND.
 MUD SPILLED, DROPPED, WASHED ON TRACKED DITO PUBLIC ROADS, OR MAY SURFACE WHERE
 RUNGET IS NOT CRECKED BY SEDMENT CONTROLS, SHALL BE REMOVED MANDIANELY. ROMOVAL SHALL
 BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- 10. CONTROCTION ENTRANCES SHALL NOT BE RELED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-STE TRACORIC, VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-STE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL--- THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED

HORIZ: SCALE:	VERT. SCALE:	5425 WARNER ROAD - SUITE 12 VALLEY VIEW, OHIO 44125 440-602-9071 FAX 216-369-0259	SITE PLAN FOR LAN-MARK HOME			
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CHECKED BY: SRL	DRAWING NO.: 20112513	ENGINEERING + SURVEYING	VILLA GRANDE AT LAKE ERIE SHORES PLAT VOLUME 54, PAGE 4 P.P.#II-B-043-G-00-001-0		*>	
JOB NO.: 20112513	SHEET: 2 OF 2	Civil Engineering + Land Surveying	PAINESVILLE TOWNSHIP, COUNTY OF LAKE STATE OF OHIO	NO. DATE	DESCRIPTION	BY